### RAZUVAYEV, G.A.; LATYAYEVA, V.N.; VYSHINSKAYA, L.I. Some reactions of biscyclopentadienyldiphenyltitanium. Dokl. AH SSSR 134 no.3:612-614 S '60. (MIRA 13:9) 1. Nauchno-issledovatel'skiy institut khimii Gor'kovskogo gosudarstvennogo universiteta im. N.I. Lobachevskogo. 2. Chlen-korrespondent AN SSSR (for Razuvayev). (Titanium compounds)

5.3700

25319

S/020/61/138/005/019/025 B103/B22

AUTHORS:

Razuvayev, G. A., Corresponding Member AS, USSR, Latyaeva, V.N.,

and Vyshinskaya, L. I.

TITLE:

Reaction of benzoyl peroxide with titanocene derivatives

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 138, no. 5, 1961, 1126-1129

TEXT: The authors studied the interaction of biscyclopentadienyl titanium (C2H5)2Ti with benzoyl peroxide, since the acyl peroxides are donors of acyloxy radicals and easily break the 0-0 bond. According to a previous paper by the authors (Ref. 1: DAN, 134, 612 (1960)), (2H5)2Ti forms on thermal decomposition of biscyclopentadienyl-phenyl titanium in alcohol or benzene solution, is very reactive and sensitive to atmospheric oxygen. Benzoyl peroxide is known to destroy sandwich compounds completely (Posakker, Ref. 2: RZhKhim, 1959, No. 22, 78502). In the present case, the titanocene group was not decomposed in benzene or inopropyl alcohol in the cold by the action of benzoyl peroxide. The coldr of the solution changed instantaneously from dark green to dazzling yel ow. CO2 was not

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Reaction of benzoyl peroxide with...

S/020/61/138/005/019/025 B103/B220

liberated in the reaction. The yellow crystalline product obtained in a dry nitrogen atmosphere was the expected biscyclopentadianyl titanium dibenzoate: (C5H5)2Ti(OCOC6H5)2. Since it had not yet been described, the authors also synthesized it from titanocene dichlorile and silver benzoate. They checked its identity by ultimate analysis (for which T. V. Guseva is thanked), by determination of the molecular weight, the melting point, and the content of benzoate groups. (C5H,)2Ti(OCOC6H,)2 can be hydrolyzed very easily, whereby the molecule of the titanocene salt decomposes and cyclopentadiene, the salt of benzoic acid, and titanic acid are formed. On alcoholysis in absolute isopropyl a cohol, cyclopentadiene, acetone, and benzoic acid were found among the reaction products. By the action of moist air, the titanocene di enzoate molecule loses two moles of cyclopentadiene and can be converted to dibenzoxy titanium oxide  $0 = Ti(0C0C_6H_5)_2$ . This product is infusible. An analogous representative of compounds of the type  $(C_5H_5)_2Ti(OCOR)_2$  was obtained by the reaction of titanocene dichloride with silver acetaty: (C5H5)2Ti(CCOCH3). It is yellow, melts at 127-130°C, and corresponds to bis yelopentadienyl Card 2/4

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Reaction of benzoyl peroxide with ...

S/020/61/138/005/019/025 B103/B220

titanium diacetate. On alcoholysis of the latter in absolute isopropyl alcohol, acetate groups were split off and cyclopentadione was formed to some extent. A yellow substance was precipitated, which is insoluble in organic solvents and has a structure unknown so far. Dissolved acetone was found in the isopropyl alcohol. The yellow substante mentioned was hydrolyzed completely in dilute alkali, whereby cyclopentadiene as well as acetic and titanic acids were formed. The formation of dibenzoate indicates that, unlike ferrocene, the structure of titahocene remains unchanged in this case. The authors studied the action of benzoyl peroxide on the cyclopentadienyl compounds of tetravalent titaniim, i.e., on diphenyl biscyclopentadienyl titanium. Even at room temperature, the phenyl radicals in isopropyl alcohol are replaced by the acylcly groups of the peroxide:  $(c_5H_5)_2\text{Ti}(c_6H_5)_2 + (c_6H_5\text{coo})_2 + cH_3\text{CH}(\text{OH})\text{CH}_3 \rightarrow (c_5H_5)\text{Ti}(\text{ococ}_6H_5)_2$ +206H6+ CH3COCH3. Thereby, biscyclopentadienyl titanium dibenzoate is formed. The phenyl radicals are converted into benzene by dehydration of the alcohol to acetone. The following absorption bands (in cm-1) were found by comparing the infrared spectra of the final and the initial compounds:  $(c_5H_5)_2\text{Ti}(c_6H_5)_2$  448, 459, 606, 690, 720, 770, 822, 886, 930,

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\$/020/61/138/005/019/025 Reaction of benzoyl peroxide with 25319 B103/B220 1024, 1076, 1286;  $(c_5H_5)_2$ TiCl<sub>2</sub>: 769, 814, 828, 872, 88, 930, 1018:  $(c_5H_5)_2T_1(ococH_3)_2$  404. 520, 600, 624, 822, 865, 1024;  $(c_5H_5)_2T_1(ococ_6H_5)_2$ 720, 830, 865, 1024, 1068, 1132. The bands 822-830 and 1018-1024 cm-1 are to be found in all spectra. They are interpreted by the authors as vibrations of the cyclopentadienyl ring. The band 865 cm-1 is absent in the spectra of the initial compounds, and is interpreted as belonging to the vibrations of the Ti-O bond. There are 1 table and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: J. D. Varma, R. C. Mehrotra (Ref. 3: J. Pract. Chem. 8, 64 (1959)). ASSOCIATION: Nauchno-issledovatel'skiy institut khimiji pri Gor'kovskom gosudarstvennom universitete im. N. I. Lobachevskogo (Scientific Research Institute of Chemistry at Gorkiy State University imeni N. I. Lobachevskiy) SUBMITTED: February 20, 1961 Card 4/4

CC NR: AP7002667	SOURCE CODE:	UR/0379/66/036/008/1491/1	498	
ORG: Scientific Research	; Latyayeva, V. N.; Vyshinskay Institute, Gor'kiy State Univ	orsity im. N. I.	34	
	ledovatel'skiy institut pri go	r'kovskom gosudarstvennom		
universitete) TITLE: Some reactions of	Bis-cyclopentadienyltitanium	and manacyclopentadianyl-		
phenyltitanium	· · · · · · · · · · · · · · · · · · ·	and noncey exoponiculating x-		
	khimii v. 36, no. 8, 1966, 14			
TOPIC TAGS: organotitania	um compound, thermal decomposi	tion, chemical bonding		
	hether thermal reactions of de			
	of tetravalent titanium are o			. ,
nd a comparison of the re ith the known reactions o	actions of newly obtained cycl f tetraphenyl- and diphenyltit	tenium the thermal de-		•
emposition of (C_H_)_TiR_	was studied, where R = Cli3, C	Collection and Collection Collection		
reir reactions with halo-	derivatives and oxidation were	also studied and the		
ata obtained were compare	d with analogous data for tetr	raphenyltitanium. The		
	unds with tetravalent titanium			
	ge of the Ti-R bond, forming t			
ower valence, analogously	to tetraphenyltitanium, which	breaks down into		
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		Treatment of hypermed. 27 no.11:46-55	tension wi	th dicoline	and dis	mecoline (MIRA )	e. Sov. 8:1)	•	
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RADIN, Vladimir Isaakovich, kand. tekhn. nauk; CHERCHEPOV, Vyacheslav Vyacheslavovich, starshiy prepodavatel; VYSHINSKAYA, Valentina Pavlovna, inzh.

Thermal design of enclosed short-circuited elaynchronous motors using digital computers. Izv. vys. ucheb. zav.; elaktromekh. 8 no.5:595-598 '65. (MIRA 18:7)

1. Glavnyy konstruktor elektromekhanicheskogo zavoda imeni Vladimira Il'icha (for Radin). 2. Kafedra elektricheskikh mashin, apparatov, matematicheskikh i schetnoreshayushchikh priborov i ustroysti Novocherkasskogo politekhnicheskogo instituta (for Cherchepov). 3. Vychislitel'nyy tsentr Novocherkasskogo politekhnicheskogo instituta (for Vyshinskaya).

YSHINSKIY, A.M.

USSR/Soil Cultivation. Organic Fertilizers.

Abs Jour: Ref Zhur-Biologiya, No 1, 1958, 1272.

Author : Vyshinskiy, A.M.

Inst : Academy of Science UkSSR

: The Effectiveness of Peat-Manure Composts In Various Title

Methods of Preparation.

Orig Pub: Sb.; Vopr. Razvitiya s. kh. Poles'ya, Kiev, Akad Nauk UkSSR,

1956 (1957), 81-90.

Abstract: In 1937 the Ukrainian Scientific-Research-Institute of Agriculture (UNIIZ and its testing system), in a series of long-term and short-term experiments, made a study of methods of preparing peat-mamure composts and their effectiveness in regions of Poles'y UkssR. The peat-mamure composts, in a ratio of 2:1 or even 4:1 when prepared for summer-autumn composting and 1:1 when composted in the winter, must be considered as the more promising. Four months of composting (somewhat longer in winter and shorter in

Card : 1/3

USSR/Soil Cultivation. Organic Fertilizers.

Abs Jour: Ref Zhur-Biologiya, No 1, 1958, 1272.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R00 summer) was sufficient under Poles'ye conditions. Peat-manure CIA-RDP86-00513R001961410015-3" composts prepared from fresh manure were far superior to those prepared from the same quantity of dried and scattered mamure. Over seven or eight months of storage the loss in nitrogen varied usually between 1% and 3%. In its effect on potato yield the peat-manure mixture differed little from the same quantity of pure manure, and the effects continued to be felt throughout the rotation; on the sixth crop -- winter wheat -- an increase in grain yield of 1.2 centners/hectare was achieved. Use of peat-manure compost in potato sowings was favorably reflected in the yield and quality of the cover crop -- flax-fibre "Iendolgunets". The flax fiber and seed yield increased, as did the quality of both. Under the combined influence of the peatmanure composts and the grasses the quantity of humas in the

Card : 2/3

VYSHINSKIY, Aleksandr Mikhaylovich [Vyrhyns'kyi, 0.M.], kand.sel'skokhoz.

neuk; MINEVICH, S.M., kand.sel'skokhoz.nauk, otv.red.; GURENKO,
V.A. [Hurenko, V.A.], red.

[Organic fertilizers, their accumulation and effective utilization]
Organichni dobryva, ikh nahromedzhennia ta efektyvne zastosuvannia.

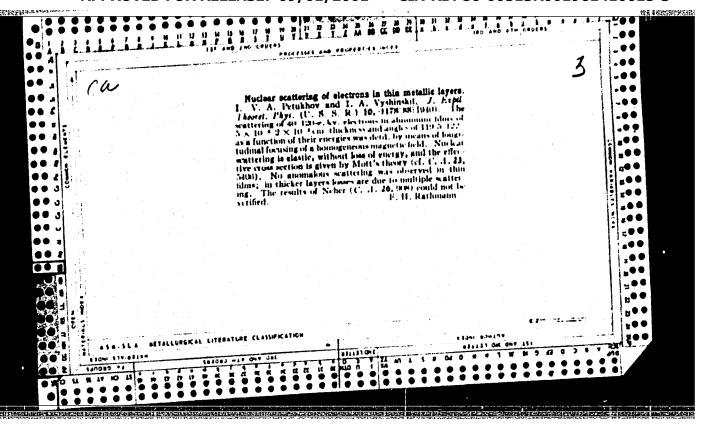
Kyiv, 1960. 39 p. (Tovarystvo dlia poshyrennia polutychnykh i
nsukovykh snan' Ukrains'koi RSR. Ser. [6 or 7], no.5.

(MIRA 13:6)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410015-3"

- 1. VYSHINSKII, A. M.
- 2. USSR (600)
- 4. Potassium Salts
- 7. Stebniki and Kalush potassium salts as fertilizers for crops in the Poles'ye and forest steppe of the Ukrainian S.S.R., Trudy UNDISOV, 6, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.



VYSHINSKIY, A.M. System of fertilizer application in crop rotations of the Ukrainian Polesye. Zemledelie 7 no.9:47-56 S 159.

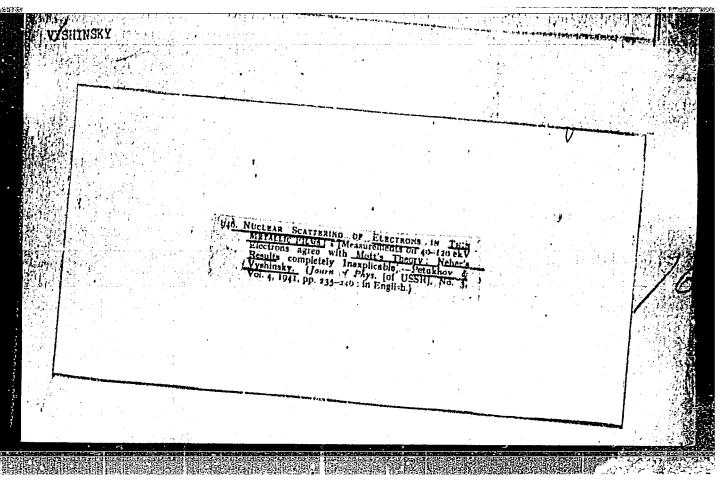
(MIRA 12:11)

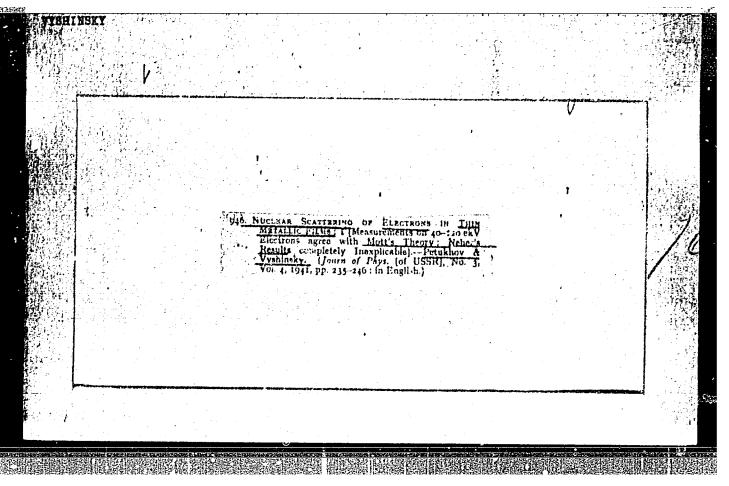
1. Ukrainskiy nauchno-issledovatel skiy institut semledeliya. (Polesye--Fertilizers and manures)

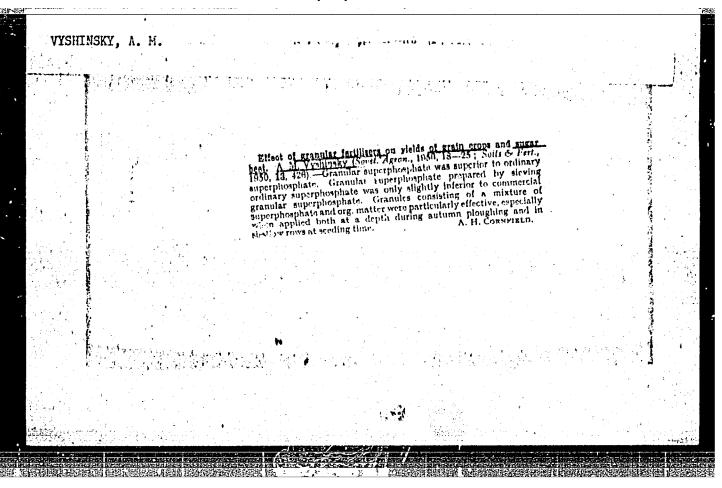
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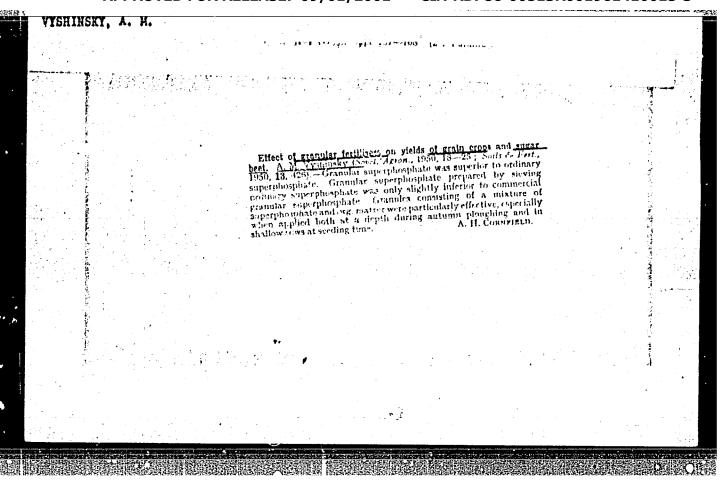
# Local organic fertilizers in Polesye and the forest-steppe of the Ukrainian S.S.R. Zenledelit? no.1:40-45 Ja '59. (MIRA 12:1) 1. Ukrainskiy nauchno-issledovatel'skiy institut zemledeliya. (Polesye--Fertilizers and mamures) (Ukraine--Fortilizers and mamures)

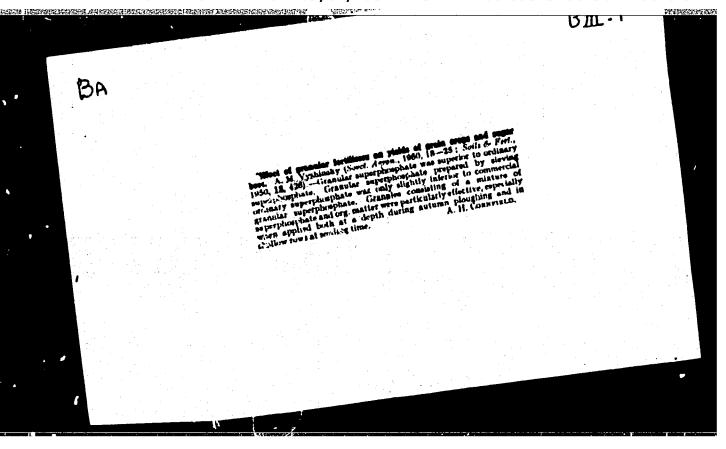
"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410015-3

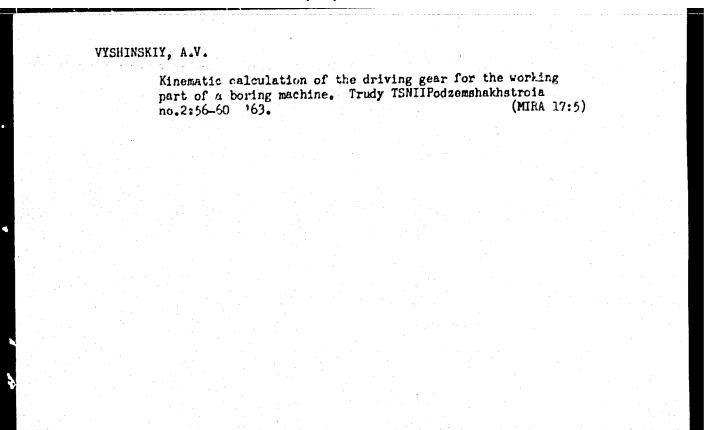












VYSHINSKIY, A.V., inzh.

Determining tension in cables for the suspension of mine scaffolds. Shakht. stroi. 8 no.2:10-12 F 164.

(MIRA 17:3)

1. TSentral'nyy nauchno-issledovatel'skiy i proyektnokonstruktorskiy institut podzemnogo i shakhtnogo stroitel'stva.

### "APPROVED FOR RELEASE: 09/01/2001 CIA

CIA-RDP86-00513R001961410015-3

VYSHINSKIY, A.V., inzh.

Design of wedge-shaped rope fasteners. Shakht. stroi. 6 no.5:9-12
(MIRA 15:7)
lty 162.

1. TSentral'nyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut podzemnogo shakhtnogo stroitel'sva.
(Wire rope)

VYSHIPSKIY, Andrey Yanurevich.

Lenia and Stalin, the great organizers of the Soviet state. Moscow,
Foreign Languages Pub. House, 1949.
71 p.
Bibliographical footnotes.
So: N/5
101.1
.V91
1949

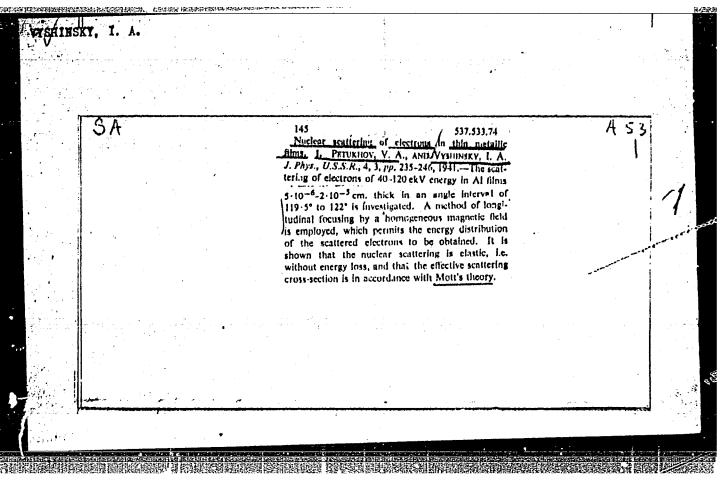
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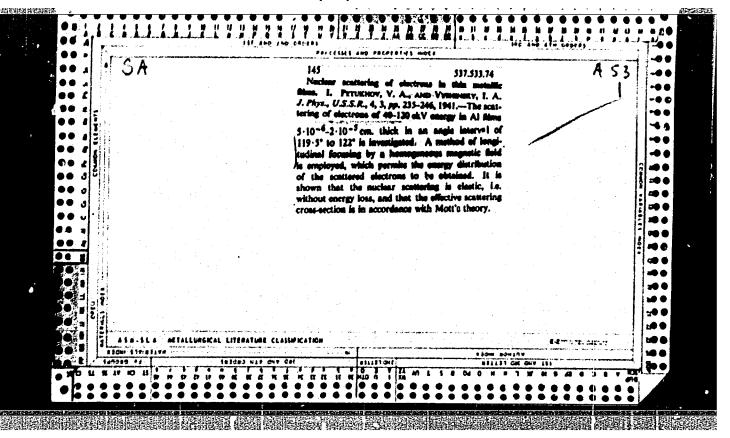
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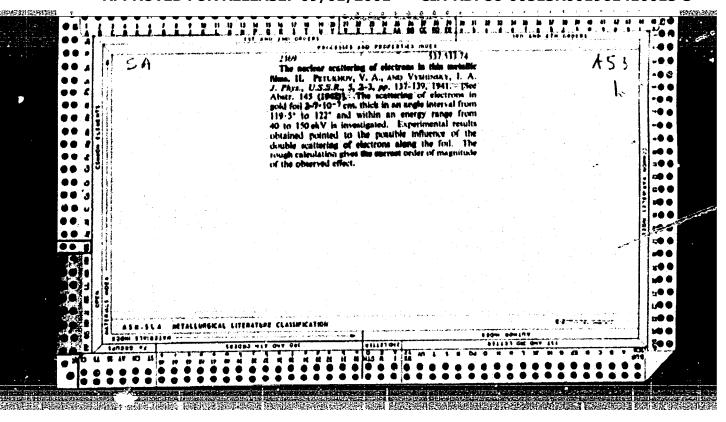
VYSHINSKIY, ANDREY YMMTARIVICH

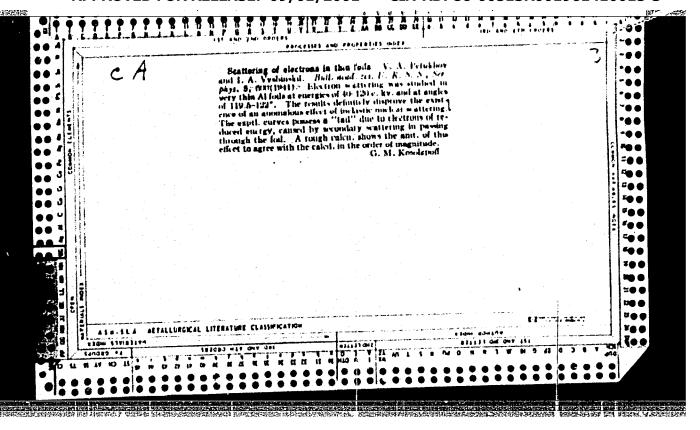
Izbiratel'nvy zakon SSSR (Flectoral law in the USSR) v voprosakh i otevetakh Moskva
Gosyurizdat, 1954. 39 p.

N/5
107.1
.V9









RAZUVAYEV, G.A.; LATYAYEVA, V.N.; VYSHINSKAYA, L.1.; VYSHINSKIY, N.H.

New monocyclopentadienyl compounds of titanium. Dokl. AN SSSR
156 no. 5:1121-1123 Je '64. (MIRA 17:6)

1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete im. N.I.Lobachevskogo.

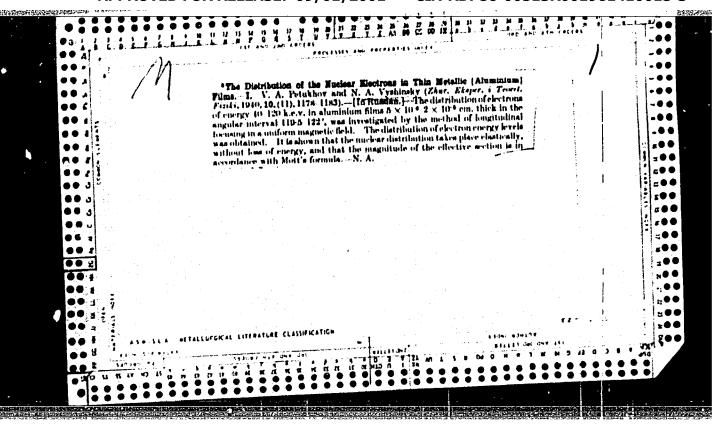
2. Chlen-korrespondent AN SSSR (for Razuvayev).

	Oxidation of b Zhur.ob.khim.	ois-cyclopentadien 32 no.4:1354-13 (Titanium	ylphenyltit	anium by	hydrog (M tion)	en pe IRA 1	roxide, 5:4)	•	
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## Oscillographic examination in hypertension, Kardiologiia 4 no.3:73-75 My-Je '64. (MIRA 18-4) 1. Cospital'naya terapevticheskaya klinika (dir. - deystvitel'-nyy chlen ANN SSSR prof. A.A.Bagdasarov) II Moskovskogo meditsinskogo instituta imeni Pirogova.

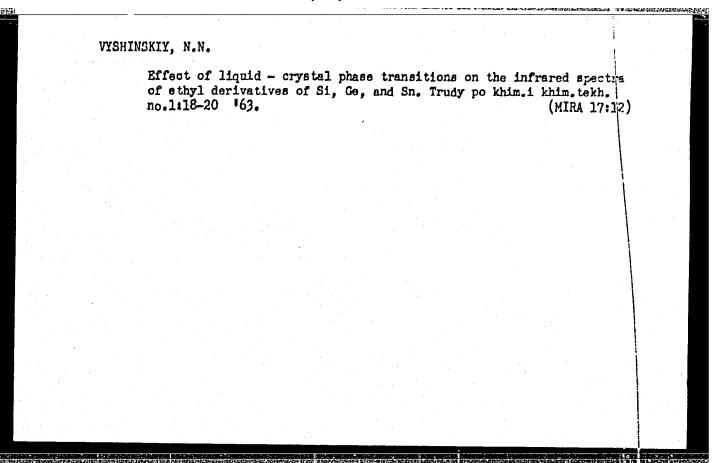
	SKIY, L.K.
11 - 30 - 30 - 30 - 30 - 30 - 30 - 30 -	Useful recommendation. Veterinariia 30 no.7:44 Jy '53.(MLRA (:7)
	1. Zaveduyushchiy Krasnodol'skim zoovetpunktom Kokchetavskoy oblasti.

Kochetav Chlast. A Useful Recommendation  So: Veterinariya; Vol. 30; No. 7; 44; July 1953, Unclassified.  Trans. #121 by L. Lulich			
SO: Veterinariya; Vol. 30; No. 7; 44; July 1953, Unclassified.		VYSHINSKIY, L. K.	
SO: Veterinariya; Vol. 30; No. 7; 44; July 1953, Unclassified.			
		Kochetav Colast. A Useful Recommendation	
Trans. #121 by L. Lulich		50: Veterinariya; Vol. 30; No. 7; 44; July 1953, Unclassified.	
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	ACCESSION NR: AP4040951 S/0020/64/156/005/1121/1:123  (Corresponding member AN SSSR)  AUTHOR: Razuvayev, G. A., Latyayeva, V. N.; Vy*shinskaya, L. I.; Vy*shinskiy, N. N.	The state of the s
	TITLE: New monocyclopentadienyl derivatives of titanium	•
•	SOURCE: AN SSSR. Doklady*, v. 156, no. 5, 1964, 1121-1123	1
•	TOPIC TAGS: titanium, titanium derivative, monocyclopentadienyl derivative, Ti monocyclopentadienyl derivative, phenol, cyclopentadienyl timethyltitane, dipenyl mercury, phenyl mercury chloride, organotitanium compound	Tourism
	ABSTRACT: The authors analyzed reactions wherein the Cl atoms in monocyclopentadienyl titanium trichloride were replaced with phenyl groups. C. A. Razuvayev it Cl (DAN, 150 (1963) 566) Previously showed that, during the reaction of titanium tetrachloride, all four Cl atoms are replaced by phenyl radicals. The authors therefore initially analyzed the exchange reaction of diphenyl	
	mercury with C <sub>5</sub> H <sub>5</sub> Ti Cl <sub>3</sub> at a 3 to 1 ratio in a benzene solution at room temperature. The following new compounds were identified:	:
	$\begin{array}{c}  C_{H_{\bullet}TiCl_{\bullet}} + 3 (C_{H_{\bullet}})_{\bullet}H_{g} \rightarrow 3C_{H_{\bullet}H_{g}Cl} + [C_{\bullet}H_{\bullet}Ti (C_{H_{\bullet}})_{\bullet}]_{\bullet} \\  C_{\bullet}H_{\bullet}TiCl_{\bullet} + 3C_{H_{\bullet}Ll} \rightarrow C_{\bullet}H_{\bullet}Ti (C_{\bullet}H_{\bullet})_{\bullet} + 3LiCl_{\bullet} \\  C_{\bullet}H_{\bullet}Ti (C_{\bullet}H_{\bullet})_{\bullet} + 3H_{g}Cl_{\bullet} \rightarrow 3C_{\bullet}H_{\bullet}H_{g}Cl + C_{\bullet}H_{\bullet}TiCl_{\bullet}_{\bullet} \\  C_{\bullet}H_{\bullet}Ti (C_{\bullet}H_{\bullet})_{\bullet} + 3H_{g}Cl_{\bullet} \rightarrow 3C_{\bullet}H_{\bullet}H_{g}Cl + C_{\bullet}H_{\bullet}TiCl_{\bullet}_{\bullet} \\  C_{\bullet}H_{\bullet}Ti (C_{\bullet}H_{\bullet})_{\bullet} + 3H_{g}Cl_{\bullet} \rightarrow 3C_{\bullet}H_{\bullet}H_{g}Cl + C_{\bullet}H_{\bullet}TiCl_{\bullet}_{\bullet} \\  C_{\bullet}H_{\bullet}Ti (C_{\bullet}H_{\bullet})_{\bullet} + 3H_{g}Cl_{\bullet} \rightarrow 3C_{\bullet}H_{\bullet}H_{g}Cl + C_{\bullet}H_{\bullet}TiCl_{\bullet}_{\bullet} \\  C_{\bullet}H_{\bullet}Ti (C_{\bullet}H_{\bullet})_{\bullet} + 3H_{g}Cl_{\bullet} \rightarrow 3C_{\bullet}H_{\bullet}H_{g}Cl_{\bullet} \\  C_{\bullet}H_{\bullet}Ti (C_{\bullet}H_{\bullet})_{\bullet} \rightarrow 3C_{\bullet}H_{\bullet}H_{\bullet}H_{\bullet} \\  C_{\bullet}H_{\bullet}Ti (C_{\bullet}H_{\bullet})_{\bullet} \rightarrow 3C_{\bullet}H_{\bullet}H_{\bullet} \\  C$	
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	ACCESSION NR: AP4040951	
	$ \begin{array}{c} (C_{0}H_{0})_{1} + u_{20} \cdot C_{0}H_{1}OH \rightarrow 3C_{0}H_{0} + C_{0}H_{0}TI (o\cdot u_{20} \cdot C_{0}H_{1})_{0}. \\ (C_{0}H_{0}TI (o\cdot u_{20} \cdot C_{0}H_{1})_{1} + 3HCI \rightarrow C_{0}H_{0}TICI_{0} + 3u_{20} \cdot C_{0}H_{1}OH. \\ (C_{0}H_{0})_{1} + C_{0}H_{0} + C_{0}H_{0} + C_{0}H_{0} + C_{0}H_{0}. \\ (C_{0}H_{0}TIC_{0}H_{0} \rightarrow C_{0}H_{0} + TI + [C_{0}H_{0}]. \\ (C_{0}H_{0}TIC_{0}H_{0} + H_{0}CI_{1} \rightarrow C_{0}H_{0}TICI_{1}, \\ (C_{0}H_{0}TIC_{0}H_{0} \rightarrow C_{0}H_{0}H_{0}H_{0}, \\ (C_{0}H_{0}TIC_{0}H_{0} \rightarrow C_{0}H_{0}H_{0}, \\ (C_{0}H_{0}TIC_{0}H_{0} \rightarrow C_{0}H_{0}H_{0}, \\ (C_{0}H_{0}TIC_{0}H_{0} \rightarrow C_{0}H_{0}H_{0}, \\ (C_{0}H_{0}H_{0} \rightarrow C_{0}H_{0}H_{0}, \\ (C_{0}H_{0}H_{0} \rightarrow C_{0}H_{0} \rightarrow C_{0}H_{0}, \\ (C_{0}$	
	Authors conclude that the bonding of the titanium atom with the cyclopentadienyl ring in the examined compounds is very similar to a ferroone bond. Orig. art.	
	ASSCCIATION: Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete im. N. I. Lobachevskogo (Scientific Research Institute for Chemistry of Gorki State University)	
	SUBMITTED: 17Feb64 ENCL: 00	
	SUB CODE: IC NO REF SOV: 003 OTHER: 002	
	Card 2/2	
2000		



5.3700

78293 S0V/79-30-3-47/69

AUTHORS:

Razuvayeva, G. A., Vyazankin, N. S., Vyshinskiy, N. N.

TITLE:

Thermal Decomposition of Tetraethyllead and Hexaethyldiplumbane. II. Decomposition of Tetraethyllead, Hexaethyldiplumbane, and Diethyllead

Mixtures

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 3, pp 967-

972 (USSR)

ABSTRACT:

This is a continuation of the authors' previous study of thermal decomposition of organic lead compounds (ZhOKh, 29, 3662, 1959), where it was shown that the thermal decomposition of tetraethyllead (I) proceeds through the formation of intermediate hexaethyldiplumbane (II), according to:

 $(c_2H_5)_4Pb \longrightarrow (c_2H_5)_6Pb_2 \longrightarrow (c_2H_5)_2Pb \longrightarrow Pb$ 

Card 1/5

This paper describes the thermal decomposition of I and II, and II and diethyllead (III) mixtures. Since

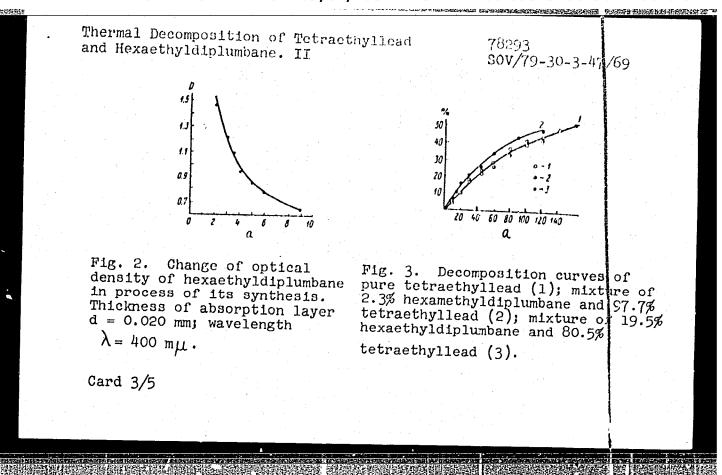
Thermal Decomposition of Tetraethyllead and Hexaethyldiplumbane. II

78293 SOV/79-30-3-47/69

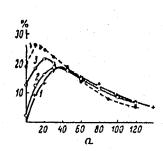
it was observed previously that the properties of II, prepared according to F. Hein and A. Klein (Ber., 71, 2381, 1938), depend on the conditions of synthesis, the processes which take place in the synthesis of II were also studied. The mixture of I and II was prepared in the receiver of a special apparatus for distilling I in a hydrogen atmosphere under vacuum. The ampoules with the mixture were kept at 135 ± 0.40 and frozen with liquid nitrogen. Synthesis of II was achieved at 18 + 0.20 from a mixture of aluminum powder and triethyllead chloride solution in 2.5N KOH. The time effect of synthesis is shown in Fig. 2. Thermal decomposition of II and other results of the experiments are given in Figs. 3, 4, and 5. The data obtained confirm the previous conclusion that the thermal decomposition of I proceeds through the formation of an intermediate II, and thermal decomposition of II proceeds through the formation of III. It is suggested that metallic lead formed in the process of decomposition acts as a

Card 2/5

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410015-3"



Thermal Decomposition of Tetraethyllead and Hexaethyldiplumbane. II



78293 SOV/79-30-3-47/69

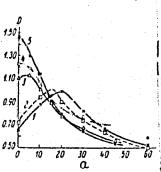


Fig: 4. plumbane concentration in tetraethyllead in thermal decomposition of the latter (1) and its mixture with hexaethyldiplumbane. Starting concentrations of (C2H5)6Pb2 in mixtures (tn % by weight): 2.3 (2); 13.7 (3); 19.5 (4).

Change of hexaethyldi- Fig. 5. Curves of optical density concentration in (d = 0.020 mm;  $\lambda$ = 400 m  $\mu$ ) change in thermal decomposition of hexaethyldiplumbane and diethyllead mixtures. Mixtures were obtained according to Hein and Klein by Reeping reagents at a steady temperature for (hr): 9(1), 6(2), 3.5(3), 3(4)

Card 4/5

Thermal Decomposition of Tetraethyllead 78293
and Hexaethyldiplumbane. II SOV/79-30-3-47/69

catalyst. It was shown that synthesis according to Hein and Klein leads to the formation of a mixture of diethyllead and hexaethyldiplumbane. There are 5 figures; and 4 references, 1 German, 3 Soviet.

SUBMITTED: March 14, 1959

Card 5/5

S/079/60/030/012/025/027 B001/B064

AUTHORS: Razuvayev, G. A., Vyazankin, N. S., and Vyshinskiy, N. N.

TITLE: Thermal Decomposition of Lead Tetraethyl, Hexaethyl Diplumbane and Their Analogues. IV. Effect of Precipitating Lead, the Walls of the Vessel and Other Factors Upon the Decomposition Process

PERIODICAL; Zhurnal obshchey khimii, 1960, Vol. 30, No. 12, pp.4099-4104

TEXT: The authors showed previously (Ref.1) that the thermal decomposition of lead tetraethyl in the liquid phase is a complex chain process proceeding under the formation of less ethylated compounds, hexaethyl diplumbane and lead diethyl:  $(C_2H_5)_4\text{Pb} \longrightarrow (C_2H_5)_6\text{Pb}_2 \longrightarrow (C_2H_5)_2\text{Pb} \longrightarrow \text{Pb} (I). \text{ The formation of a solid phase, metallic lead, is characteristic of this reaction. Previous findings on the decomposition kinetics of binary mixtures of lead tetraethyl and hexaethyl diplumbane (Ref.6) were used to study the role played by this metal in the complicated thermal decomposition processes. Fig.1 shows that the concentration of hexaethyl diplumbane reaches a limit Card <math>1/3$ 

Thermal Decomposition of Lead Tetraethyl, S/079/60/030/012/025/027 Hexaethyl Diplumbane and Their Analogues. B001/B064 IV. Effect of Precipitating Lead, the Walls of the Vessel and Other Factors Upon the Decomposition Process

characteristic of the given temperature in the decomposition of pure lead tetraethyl, and that it drops subsequently. It was expected in the decomposition of a specially prepared mixture consisting of (C2H5)4Pb and (C2H5)6Pb2, with a concentration of the second component being close to the limit concentration, that the kinetic curve consist of the descending branch only. Also in this case, however, the concentration of hexaethyl diplumbane increases. These findings are in favor of the fact that lead acts as a cataly:t in the splitting of the decomposition intermediates, since in its absence a concentration of hexaethyl diplumbane is observed, and in the presence of considerable amounts of highly disperse metal the  $({}^{\rm C}_2{}^{\rm H}_5)_6{}^{\rm Pb}_2$  concentration is reduced. It was found that in the decomposition of lead tetraethyl the final product, the highly disperse metallic lead, catalyzes the decomposition intermediates (hexaethy! diplumbane and lead diethyl), so that this thermal decomposition may be regarded as an autocatalytic process. The wall of the vessel has no essential effect upon the decomposition process of lead Card 2/3

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410015-3"

Thermal Decomposition of Lead Tetraethyl, \$\ 5/079/6C/030/012/025/027 \\
Hexaethyl Diplumbane and Their Analogues. \$\ 8001/8064 \\
IV. Effect of Precipitating Lead, the Walls of the Vessel and Other Factors Upon the Decomposition Process

tetraethyl and hexaethyl diplumbane. In the presence of atmospheric oxygen the oxidation of lead tetraethyl suppresses the thermal decomposition reaction completely. Traces of atmospheric oxygen and products of the incomplete oxidation of lead tetraethyl inhibit the thermal decomposition process considerably. Stronger inhibitors of the thermal decomposition reaction of lead tetraethyl are small quantities of dibromo ethane and other alkyl halides. Fig.3 shows the effect of atmospheric oxygen upon the decomposition of lead retraethyl at 135±0.3 °C. Table 1 shows that the separation of lead from the reaction mixture leads to a concentration of the decomposition intermediate product of hexaethyl diplumbane. Yu. I. Dergunov took part in some of the experiments. There are 3 figures, 3 tables, and 7 references: 5 Soviet, 1 American, and

ASSOCIATION: Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete (Scientific Research Institute of Chemistry of Gor'kiy State University)

SUBMITTED: January 8, 1960

Card 3/3

24(7), 5(4) AUTHORS:

Rudnevskiy, N. K., Vyshinskiy, N. N.

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TITLE:

The Molecular Spectra of Hexaethyl Dilead and the Determination

SOY/48-23-10-22/39

of Its Concentration in Tetraethyl Lead

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,

Vol 23, Nr 10, pp 1228-1229 (USSR)

ABSTRACT:

Industrially produced tetraethyl lead (TEL) which is used as antidetonant, generally also contains hexaethyl dilead (HED) which reduces its quality and chemical stability. The present paper deals with the spectrophotometric determination of HED in TEL. The TEL spectra have already been frequently investigated, whereas nothing is known to the authors about investigations of HED spectra. They therefore investigated the infrared spectra of HED within the range 1.5-25% by means of an IKS-2-spectrometer and a monochromator of the type EMP-2. However, it turned out that there is hardly any difference between the infrared spectra of HED and TEL within this range, which renders the method useless. By using electron spectra of these compounds (figure 1 - TEL (curve 1) and HED (curve 2) in nheptane) a method for the quantitative determination of HED in

Card 1/2

The Molecular Spectra of Hexaethyl Dilead and the Determination of Its Concentration in Tetraethyl Lead

TEL could be worked out. Figure 2 shows the calibration curves: Line 1: HED determination in TEL at 320 mm with a TEL standard; line 2: in n-heptane with n-heptane standard. The relative error in HED determination with a HED concentration of 0.5-3.5% amounted to be  $\pm 5\%$ . If TEL contains more than 3-4% HED, optical density is much greater, and therefore dilution is carried out with n-heptane. It is assumed that HED concentration in the sample is a linear function of the true concentration. In the case of such a determination the relative error is about +4%. The method of determining HED and TEL was used in practice when investigating the photo- and thermodecay of TEL in the absence of air-oxygen. It was found that, both by uv-irradiation (Fig 3) and by the heating of TEL its optical density increases. This was assumed to be due to the increase of the HED content; this assumption was confirmed both by means of polarographic- and also by chemical methods. There are 3 figures and 7 references, 2 of which are Soviet.

Card 2/2

VOLKOV, V.F.; VYSHINSKIY, N.N.

Radiospectral comparator for investigating the absorption spectra of molecules. Zav.lab. 29 no.5:614-615 '63. (MIRA 16:5)

1. Gor'kovskiy gosudarstvennyy mniversitet im. N.I.Lobachevskogo. (Radio-frequency spectroscopy)

VOLKOV, V.F.; VYSHINSKIY, N.N.; RUDNEVSKIY, N.K.

Vibrational and rotational spectra of trimethylchlorosilane, triethylchlorosilane, and triethylchlorostannane. Izv. AN SSSR.Ser. fiz. 26 no.10:1282-1285 0 '62. (MIRA 15:10) (Silane-Spectra) (Tin organic compounds-Spectra) (Spectrum, Molecular)

VYSHINSKIY, N.N.; ALEKSANDROV, Yu.A.; RUDNEVSKIY, N.K.

Vibrational spectra of tin and lead organic compounds and their analytical application. Izv. AN SSSR.Ser.fiz. 26 no.10:1285-1287 0 '62.

(MIRA 15:10)

(Tin organic compounds—Spectra) (Lead organic compounds—Spectra) (Spectrum, Molecular)

EMT(a)/EDS

\$/032/63/029/005/018/022

AUTHORS:

Volkov. Y. F. and Vyshinskiy, N. N.

TITLE:

Radiospectral comparator for investigation of the absorption

spectra of molecules

PERIODICAL: Zavodskaya laboratoriya, v. 29, no. 5, 1963, (14-615

The design of an analyzer of microwave lines of gas absorption TEXT: described. The comparator for a frequency range of 7000 to 50,000 mc consists of 2 radio-spectroscopes, one of them a standard. In the standard, electric signals of the molecules serve as standards of frequency and intensity. The action of the research radiospectroscope is based on electric molecular modulation, and the radiospectral lines are determined by compurison with the standard absorption lines of the gas molecules. There is one figure.

ASSOCIATION: Gor'kovskiy gosudarstvennyy universitet im. N. I. Lobachevskogo (Gor'kiy State University imeni N. I. Lobachevskiy)

Card 1/1

VISHINS	Oggilletown	spectra of cert group IV. Oppt. (Organometalli	ain organo i spektr. c compound	matallic o 10 no,6:1 sSpectro	compounds of the (797-799 Je 161.	

(MIRA 14:5)

RAZUZAYEV, G.A.; VYAZANKIN, N.S.; DERGUNOV, Yu.I.; VYSHINSKIY, N.N. Thermal decomposition of tetraethyllead, hexaethylphumbane, and their analogs. Part 5: Reactions of decomposition and disproportionation of hexaethyldistannane. Zhur.ob.khim. 31 no.5:1712-1717 My

1. Nauchno-issledovateliskiy institut khimii pri Gorikovskom gosudarstvennom universitete imeni N.I.Lobachevskogo. (Tin organic compounds)

Ю1.

S/04E/62/026/G10/G11/O13 B117/B186

AUTHORS: Vyshinskiy, N. N., Aleksandrov, Yu. A., and Rudnevskiy,

N. K.

TITLE: Vibration spectra of organic tin and lead compounds and

their analytical application

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 26, no. 10, 1962, 1285-1287

TEXT: Unlike the spectra of tetra- and hexaethyl derivatives, the infrared absorption spectrum of triethyl germanium, that of triethyl tin, and that of triethyl lead oxides (Et<sub>3</sub>MOMEt<sub>3</sub>) of corresponding ethylates (Et<sub>3</sub>MOEt) and triethyl tin peroxide (Et<sub>3</sub>SnOOSnEt<sub>3</sub>), which were examined here (M = Ge, Sn, Pb; Et = C<sub>2</sub>H<sub>5</sub>), display intense bands (Ge = 856, Sn = 776, Pb = 638 cm<sup>-1</sup>) which are suited for analytical purposes and can be attributed to the asymmetric vibrations of the M-O-H group. It has been shown that the force constant of the M-O bond can be estimated under certain conditions relatively to the valence angles of the M-O-M group. Card 1/2

Vibration spectra of organic ...

S/048/62/026/010/011/013 B117/B186

The resulting values can be used to estimate the vibration frequencies of the M-O bond in triethyl germanium, triethyl tin, and triethyl lead ethylate. The vibration frequency of the Pb-O bond in an EtzPbOEt molecule corresponds obviously to the asymmetric vibration frequency of the PbC3 group. In the range about 590 cm-1, the spectrum of EtySnOEt shows a band of medium intensity, which can be attributed to the vibration of Sn-O. The question whether the weak band detected in the EtzGeOEt spectrum near 650 cm-1 can be assigned to the vibrations of the Ce-O bond has not yet been answered. For analytical purposes, however, the intense bands found in the spectra of ethylates around 900 cm-1 and between 1050 and 1100 cm $^{-1}$  are more important. The 550 cm $^{-1}$  band in the spectrum of triethyl tin peroxide and the 790 cm $^{-1}$  band in the spectrum of triethyl silicon peroxide must be attributed to the stretching vibrations of the Sn-O and Si-O bond, respectively. The characteristics of the spectra under examination made it possible to investigate the mechanism underlying the oxidation of hexaethyl diplumbane and hexaethyl distannane as well as the properties of triethyl tin peroxide (Ydskanalekeendrov, W. Wihlyshinskiy, K., Tr. po khimii i khim. tekhnologii, Gor'kiy, 3, 656 (1961)). There are

Card 2/2

### "APPROVED FOR RELEASE: 09/01/2001

#### CIA-RDP86-00513R001961410015-3

L-26723-66 EWT(m)/EWI-(j)/T IJP(c) SOURCE CODE: 1/R/0081/65/000/016/S030/S031 ACC NR. AR6011876 AUTHOR: Vyakhirev, D. A.; Zabotin, K. P.; Zuyeva, Ye. M.; Troitskiy, B. B.; Vyshinskiy, N. N.; Nikolayeva, M. V.; Pogrebnaya, T. I.; Fomicheva, L. V. TITIE: Gas chromotography study of impurities in methylmethacrylate and analysis of their effect on the process of polymerization SOURCE: Ref. zh. Khimiya, Abs. 16S214 TOPIC TAGS: methanol, methylmethacrylate, glycol, polymerization rate, molecular weight, monomer ABSTRACT: With the use of the gas chromatography method on an INZ-600 brick with a selective liquid phase of polyethylene glycol 1000, it has been determined that the basic admixtures in industrial methylmethacrylate are dimethyl ether, methylformate, methylpropionate, methanol, methyl-3-methoxypropionate, and three unidentified substances. An investigation was made of the effect of supplementing the detected admixtures to methylmethacrylate on the polymerization rate and the molecular weight of the polymer obtained by standard methods in emulsion at 40C. It was shown that up to 2% methanol increases the polymerization rate and the molecular weight. Above 1% methylformate decreases the molecular weight and above 3% decreases the polymerization rate. Methylpropionate sharply decreases the molecular weight and the polymerization rate at a concentration of 0.5 to 1%. Acetaldehyde has no effect on the Z Card 1/2

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1.49768-65 EFF(c)/EMP(j)/EMT(m) Pc-4/Pr-4 ACCESSION NR: ARSO12251	RH UR/0058/65/000/003/D033/D033
SOURCE: Ref. zh. Fizika, Abs. 3D238	
AUTHORS: Vyshinskiy, N. N.; Kozlova, T. V.; Rudne	evs ily, n. k.
TITLE: Investigation of the influence of the aggreture on the vibrational infrared spectra of ethyland tin	regite state and of the tempera- derivatives of silicon, germanium,
CITED SOURCE: Tr. Komis. po spektroskopii. AN SS	588, vyp. 1, 1964, 451-459
TOPIC TAGS: infrarcd spectrum, vibrational spectromenium, tin	rum ethyl derivative, silicon,
TRANSLATION: Infrared spectra were investigated c type (C2H5)4M, (C2H5)3MX, and (C2H5)3MM(C2H5)3 (M	of siven ethyl derivatives of the Sil, Ge, Sn) in the temperature
range from -170 to +200. The spectra of most froz number of vibrational frequencies than the spectro individual bands is observed. The character of the	zen lubstances were richer in the

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S/048/62/026/010/010/013 B117/B186

24.611

AUTHORS: Volkov, V. F., Vyshinskiy, N. N., and Rudnevskiy, N. K.

TITLE:

Rotational vibration spectra of trimethyl silane chloride, triethyl silane chloride, and triethyl stannane chloride

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 10, 1962, 1282-1285

TEXT: Microwave spectra (20,000-40,000 Mc/sec) of (CH<sub>3</sub>)<sub>3</sub>SiCl, (C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>SiCl, (CH<sub>3</sub>)<sub>3</sub>SiCl, (C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>SiCl and infrared absorption spectra (400-1600 cm<sup>-1</sup>) of (CH<sub>3</sub>)<sub>3</sub>SiCl, (C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>SiCl, (C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>SiCl, and (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>SiCl<sub>2</sub> (400-1300 cm<sup>-1</sup>) were examined. The infrared absorption spectra of (CH<sub>3</sub>)<sub>3</sub>SiCl and (C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>SiCl agree with published data (A. L. Smith, J. A. McHard, Anal. Chem., 31, 1174 (1959); Ya. I. Ryskin, M. G. Voronkov, Collect. Czechoslov. Chem. Com., 24, 3816 (1959)). Infrared spectra of crystallizing (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>SnCl<sub>2</sub> show a frequency change of the band which corresponds with the stretching vibrations of the C-C bond. This is related to the different symmetries of Card 1/3

S/048/62/026/010/010/013 B117/B186

Rotational vibration apectra ....

a molecule in solution (point group C2v) and in crystalline state (C3). According to their microwave spectra, (CH3)3SiCl and (CH3)3SnCl possess the configuration of a symmetric gyro (point group C3v). Spectra show distinctly marked harmonic series of these molecules, with Cl35 and Cl37 isotopes. In accordance with the configuration stated above, the band in the infrared spectrum of (CH3)3SiCl, which corresponds to the stretching vibrations of the Si-Cl bond, is symmetric. In addition to the lines which are characteristic of symmetric gyros, the microwave spectrum of (C2H5)3SiCl exhibits a large number of other lines indicating that the molecule concerned exists in the form of rotational isomers. The presence of such molecules, and the presumed configuration of the point groups C3, C8, and C1, account for the complex structure of the infrared absorption bands corresponding to the stretching vibrations of the C-C bonds of various isomers. The moment of inertia and the rotation constant of the molecule suggest that a C symmetry can be assigned to spectrum of  $(C_2H_5)_3$ SnCl shows no lines The microwave Card 2/3

S/048/62/026/010/010/013
Rotational vibration spectra ... B117/B186

indicating the configuration of a symmetric gyro. On the strongth of the infrared spectrum it is possible, however, to regard the configuration with C symmetry as the isomeric ground state of  $(C_2H_5)_3$ SnCl. There are 2 figures and 1 table.

'Card 3/3

VYSHINSKIY, 0.M. [Vyshyns'kyi, 0.M.], kand.sel'skokhozysystvennykh nauk

Liquid nitrogen fertilizers. Hauka i zhyttia 8 no.8:36-38
Ag '58.

(Wertilizers and manures)

USSR / Cultivated Plants. Grains.

M-2

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24959

Author

: Vyshinskiy, O. M.

Inst

: Not given

Title

: The Peat and Lupine Composts and the Methods of Using Peat Together with Green Manure in Fallows

for Winter Crops

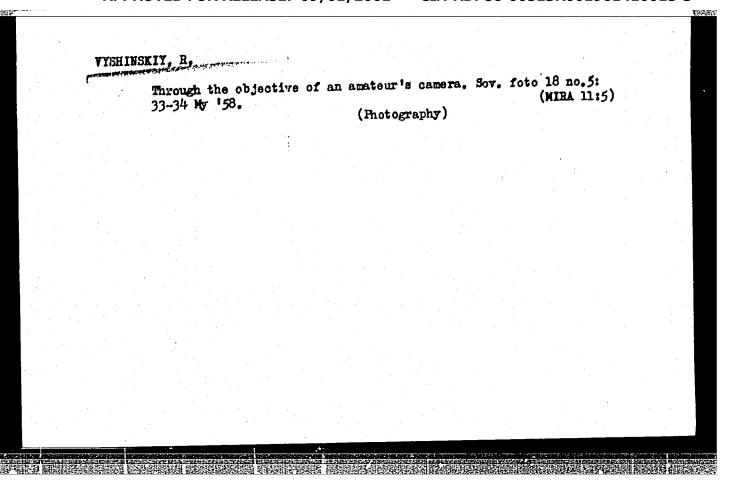
Orig Pub: Nauk. pratsi vid. sil'skogosp. nauk. AN URSR,

1956, vip. 4, 48-54 (Ukrainian)

Abstract: According to the findings of the experiment made at the Buchanskiy Experimental Point (Poles'ye), peat and lupine composts increase the effectiveness of peat as a fertilizer. They help to increase the mobile forms of nitrogen in the soil and increase its biological activity. Peat and lupine may be applied without preliminary composting, ploughing

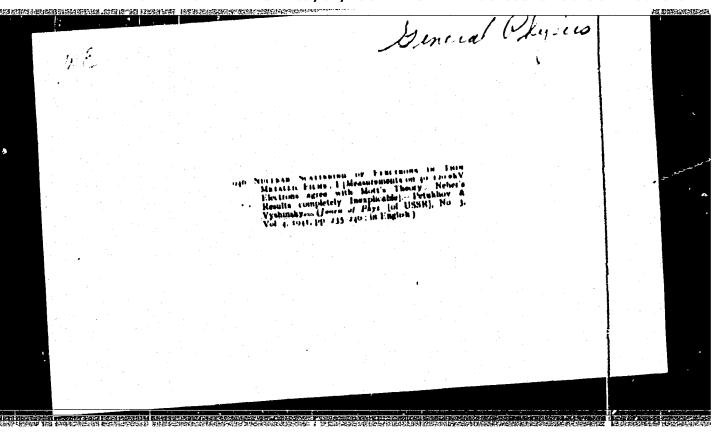
Card 1/2

24



ORG: none TITLE: Electromagnetic-wave propagation over a shielded helical line having a dielectric core, with an allowance for wire finite conductivity  SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966.  Sektsiya volnovodnykh ustroystv. Doklady. Moscow, 1966, 23-29  TOPIC TAGS: transmission line, helical antenna  ABSTRACT: Formulas are derived for calculating parameters of a helical transmission constant of such a line, technical formulas for the attenuation, shortening factor, (radii of the helix and shield, respectively) and of the first two parameters vs. b/a frequency are shown. The results are claimed to be useful also for designing a line orig. art. has: 5 figures and 15 formulas.  SUB CODE: 09 / SUBM DATE: 19Mar66 / ORIG REF: 005 / OTH REF: 001	AUTHOR: Vyshinskiy, S. A.	SOURCE CODE: UR/0000/66/000/000/0023/0029	,
SOURCE: Vsescyuznaya nauchnaya sessiya, posvyashchennaya Dmyu radio. 22d, 1966. Sektsiya volnovodnykh ustroystv. Doklady. Moscow, 1966, 23-29  TOPIC TAGS: transmission line, helical antenna  ABSTRACT: Formulas are derived for calculating parameters of a helical transmission constant of such a line, technical formulas for the attenuation for the propagation and characteristic impedance are derived. Plots of the first two parameters vs. b/a requency are shown. The results are claimed to be useful also for designing a line orig. art. has: 5 figures and 15 formulas.  UB CODE: 09 / SUEM DATE: 19Mar66 / ORIG REF: 005 / OTH REF: 001	ORG: none		:
Sextsiya volnovodnykh ustroystv. Doklady. Moscow, 1966, 23-29  TOPIC TAGS: transmission line, helical antenna  ABSTRACT: Fornulas are derived for calculating parameters of a helical transmission constant of such a line, technical formulas for the attenuation for the propagation and characteristic impedance are derived. Plots of the first two parameters vs. b/a frequency are shown. The results are claimed to be useful also for designing a line orig. art. has: 5 figures and 15 formulas.  UB CODE: 09 / SUBM DATE: 19Mar66 / ORIG REF: 005 / OTH REF: 001	TITLE: Electromagnetic-wave prodielectric core, with an alloward	pagation over a shielded helical line having a nce for wire finite conductivity	
ABSTRACT: Formulas are derived for calculating parameters of a helical transmission line from its known construction. From a characteristic equation for the propagation constant of such a line, technical formulas for the attenuation, shortening factor, and characteristic impedance are derived. Plots of the first two parameters vs. b/a frequency are shown. The results are claimed to be useful also for designing a line from specified electrical characteristics (a wide-band dummy antenna case).  UB CODE: 09 / SUBM DATE: 19Mar66 / ORIG REF: 005 / OTH REF: 001	Sektsiya volnovodnykh ustroystv	sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Doklady. Moscow. 1966. 23-20	
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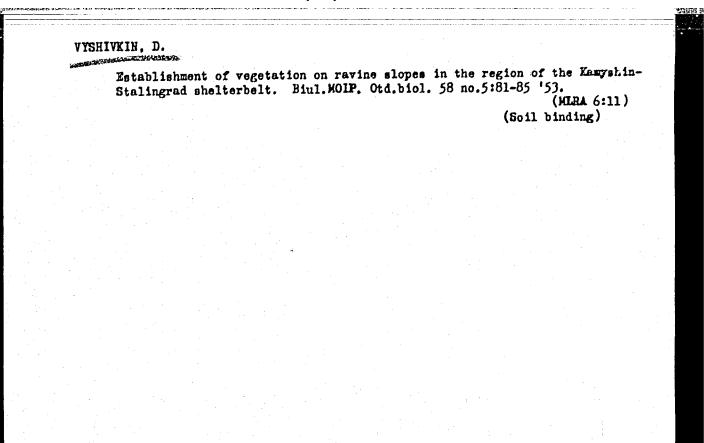
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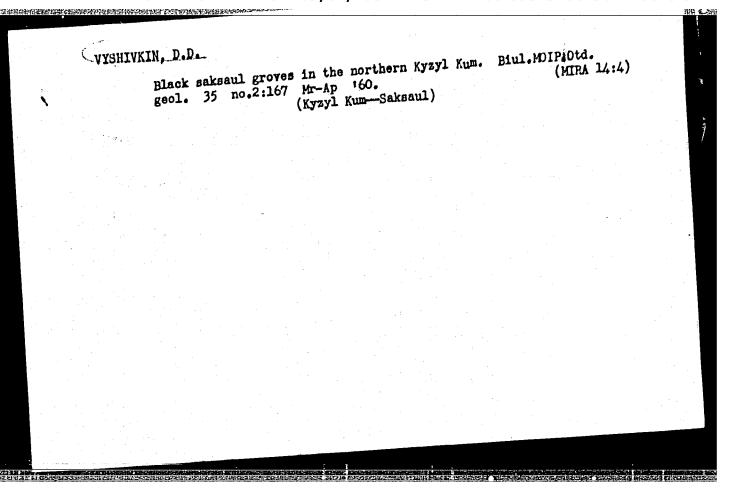
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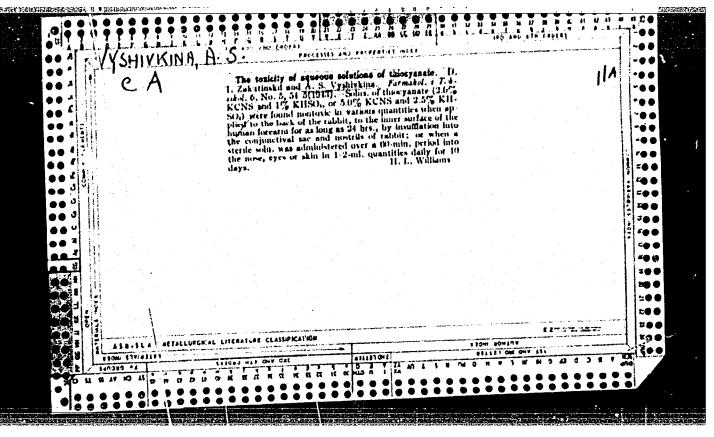
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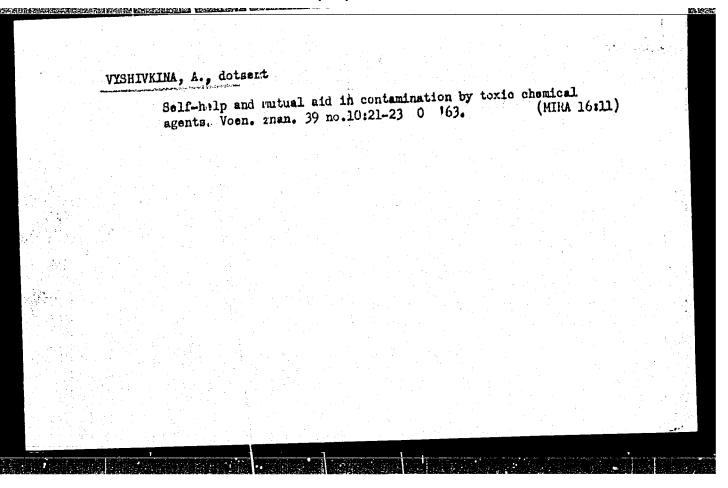
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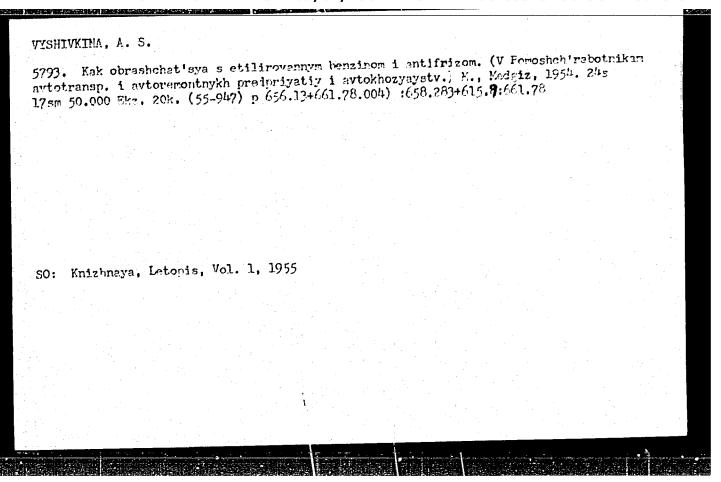
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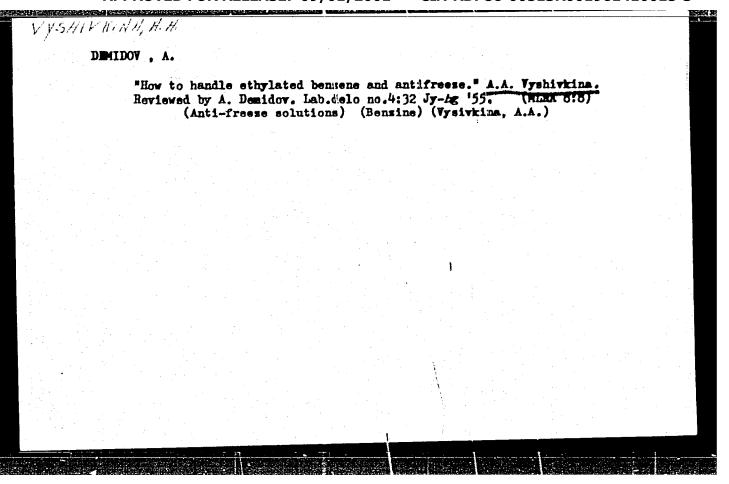
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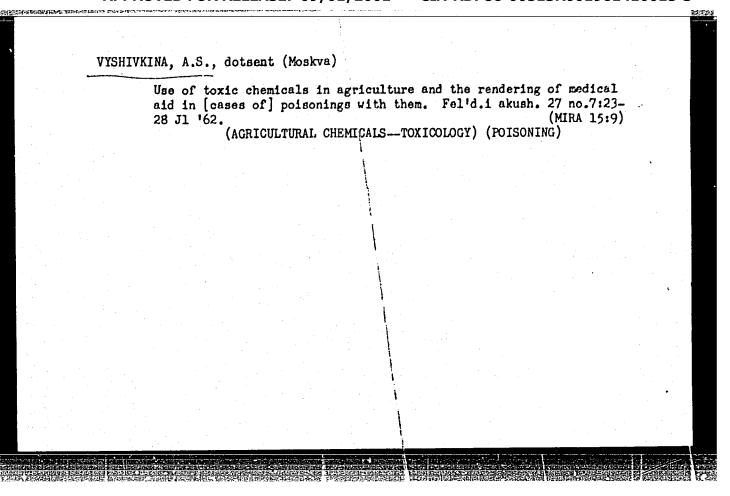
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